

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"20040136554"	US-PGPUB; USPAT	OR	ON	2006/12/12 10:03
L10	23	(US-20020039421-\$ or US-20040091123-\$ or US-20020006206-\$ or US-20020154783-\$ or US-20020097880-\$).did. or (US-5892830-\$ or US-6507657-\$ or US-6111958-\$ or US-5862227-\$ or US-6222930-\$ or US-6574339-\$ or US-6611603-\$ or US-7031474-\$ or US-5912976-\$ or US-5850453-\$ or US-5696831-\$ or US-5027403-\$ or US-6614910-\$ or US-5524056-\$ or US-6937733-\$ or US-6731682-\$ or US-6842524-\$).did. or (EP-1194007-\$).did.	US-PGPUB; USPAT; EPO	OR	ON	2006/12/12 10:20
L11	4	L10 and (cross with path\$2)	US-PGPUB; USPAT	OR	ON	2006/12/12 10:20
L12	9	(US-20020006206-\$ or US-20020154783-\$ or US-20020097880-\$).did. or (US-5027403-\$ or US-6614910-\$ or US-5524056-\$ or US-6937733-\$ or US-6731682-\$ or US-6842524-\$). did.	US-PGPUB; USPAT	OR	ON	2006/12/12 12:17
L13	23	(US-20020039421-\$ or US-20040091123-\$ or US-20020006206-\$ or US-20020154783-\$ or US-20020097880-\$).did. or (US-5892830-\$ or US-6507657-\$ or US-6111958-\$ or US-5862227-\$ or US-6222930-\$ or US-6574339-\$ or US-6611603-\$ or US-7031474-\$ or US-5912976-\$ or US-5850453-\$ or US-5696831-\$ or US-5027403-\$ or US-6614910-\$ or US-5524056-\$ or US-6937733-\$ or US-6731682-\$ or US-6842524-\$).did. or (EP-1194007-\$).did.	US-PGPUB; USPAT; EPO	OR	ON	2006/12/12 12:17
L14	8	L13 and (averag\$3)	US-PGPUB; USPAT; EPO	OR	ON	2006/12/12 12:19
L15	1462	(averag\$3 with signal\$2) and ("381"/\$.cccls.)	US-PGPUB; USPAT; EPO	OR	ON	2006/12/12 12:20

## EAST Search History

L16	1140	L15 and @ad<"20021122"	US-PGPUB; USPAT; JPO	OR	ON	2006/12/12 12:21
L17	41	L16 and (381/17.ccls.)	US-PGPUB; USPAT; JPO	OR	ON	2006/12/12 12:21
L18	4	L13 and (\$3finite with impulse with response)	US-PGPUB; USPAT	OR	ON	2006/12/12 14:16
L19	14	Kirkeby-Ole\$.in.	US-PGPUB; USPAT	OR	ON	2006/12/12 15:05
L20	10	L19 and (equaliz\$3 or enhanc\$3)	US-PGPUB; USPAT	OR	ON	2006/12/12 15:06
S1	2	US-5892830-\$.DID. OR US-4748669-\$.DID.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/11 12:18
S2	1	"6507657"	USPAT	OR	ON	2006/12/11 12:19
S3	5	"611158"	USPAT	OR	ON	2006/12/11 12:19
S4	7	"6111958"	USPAT	OR	ON	2006/12/11 12:20
S5	12	"1194007"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 12:21
S6	13	"9700594"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 12:22
S7	13	"0955789"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 12:22
S8	10	"5862227"	USPAT	OR	ON	2006/12/11 12:23
S9	13	"0955789"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 12:27

## EAST Search History

S10	1500	("381"/\$.ccls.) and (equaliz\$5 with (spectr\$3 or frequenc\$3))	US-PGPUB; USPAT; JPO	OR	ON	2006/12/11 15:12
S11	911	S10 and (channel\$2)	US-PGPUB; USPAT; JPO	OR	ON	2006/12/11 16:18
S12	706	S11 and @ad<"20021122"	US-PGPUB; USPAT; JPO	OR	ON	2006/12/11 14:36
S13	22	S12 and (spatial\$2 with (enhanc\$3 or broaden\$3 or widen\$3))	US-PGPUB; USPAT; JPO	OR	ON	2006/12/11 14:35
S14	245	(381/309.ccls.)	US-PGPUB; USPAT	OR	ON	2006/12/11 14:36
S15	155	S14 and @ad<"20021122"	US-PGPUB; USPAT; JPO	OR	ON	2006/12/11 16:41
S16	23	S15 and (equaliz\$5 with (spectr\$3 or frequenc\$3))	US-PGPUB; USPAT; JPO	OR	ON	2006/12/11 14:37
S17	68	("3170991"   "3246081"   "3249696"   "3665105"   "3697692"   "3725586"   "3745254"   "3757047"   "3761631"   "3772479"   "3849600"   "3885101"   "3892624"   "3943293"   "4024344"   "4063034"   "4069394"   "4118599"   "4139728"   "4192969"   "4218585"   "4219696"   "4237343"   "4239937"   "4303800"   "4308423"   "4308424"   "4309570"   "4332979"   "4349698"   "4355203"   "4356349"   "4393270"   "4394536"   "4408095"   "4479235"   "4489432"   "4495637"   "4497064"   "4503554"   "4567607"   "4569074"   "4589129"   "4594610"   "4594730"   "4748669"   "4856064"   "4866774"   "4953213"   "5046097"   "5105462"   "5208860"   "5251260"   "5255326"   "5319713"   "5400405"   "5533129").PN. OR ("5892830").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/11 14:53

## EAST Search History

S18	23	("3236949"   "4219696"   "4748669"   "4841572"   "5046097"   "5052685"   "5121433"   "5195140"   "5235646"   "5386082"   "5412731"   "5420929"   "5436975"   "5438623"   "5521981"   "5587936").PN. OR ("6111958").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/11 15:12
S19	17498	(equaliz\$5 with (spectr\$3 or frequenc\$3))	US-PGPUB; USPAT; JPO	OR	ON	2006/12/11 15:13
S20	388	S19 and ((left and right) with (equaliz\$5))	US-PGPUB; USPAT; JPO	OR	ON	2006/12/11 15:13
S21	286	S20 and @ad<"20021122"	US-PGPUB; USPAT; JPO	OR	ON	2006/12/11 16:18
S22	15	"955789"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 16:03
S23	13803	S19 and @ad<"20021122"	US-PGPUB; USPAT; JPO	OR	ON	2006/12/11 16:18
S24	7380	S23 and (channel\$2)	US-PGPUB; USPAT; JPO	OR	ON	2006/12/11 16:19
S25	706	S24 and ("381"/\$.ccls.)	US-PGPUB; USPAT; JPO	OR	ON	2006/12/11 16:22
S26	74	S25 and (monophon\$5 )	US-PGPUB; USPAT; JPO	OR	ON	2006/12/11 16:30
S27	23562	(equaliz\$5 with (frequenc\$3 or spectral\$3 or phase\$2))	US-PGPUB; USPAT; JPO	OR	ON	2006/12/11 16:40
S28	18680	S27 and @ad<"20021122"	US-PGPUB; USPAT; JPO	OR	ON	2006/12/12 12:20
S29	9073	S28 and (delay\$2)	US-PGPUB; USPAT; JPO	OR	ON	2006/12/11 16:47
S30	580	S29 and ("381"/\$.ccls.)	US-PGPUB; USPAT; JPO	OR	ON	2006/12/12 10:02